

What is claimed is:

1. A thin film magnetic head comprising at least one writing element, said writing element including a first magnetic film, a second magnetic film, a gap film and a coil film,

said first magnetic film including two notches which are separated on the same plane level and to be opposite to a magnetic recording medium and a first pole piece which includes a uniform width portion which defines a uniform track width as viewed backward from a forefront of said first pole piece to be opposite to said magnetic recording medium by the distance between said two notches,

said second magnetic film including a second pole piece and being adjacent to said first pole piece via said gap film,

said coil film exciting a thin film magnetic circuit comprised of said first magnetic film, said second magnetic film and said gap film,

wherein in said first pole piece, if the height of said uniform width portion is defined by "TH1", and the depth of said uniform width portion to a top surface from a base plane of said first magnetic film is defined by "ND1", and the thickness of said gap film is defined by "WG", the relations of $TH1 \geq 4WG$ and $ND1 \geq 4WG$ are satisfied.

2. A thin film magnetic head comprising at least one writing element, said writing element including a first magnetic film, a second magnetic film, a gap film and a coil film,

said first magnetic film including two notches which are separated on the same plane level and to be opposite to a magnetic recording medium and a first pole piece which is located between said two notches,

said second magnetic film including a second pole piece which is adjacent to said first pole piece via said gap film and includes a uniform width portion which defines a uniform track width as viewed backward from a forefront of said second pole piece to be opposite to said magnetic recording medium

said coil film exciting a thin film magnetic circuit comprised of said first magnetic film, said second magnetic film and said gap film,

wherein in said second pole piece, if the height of said uniform width portion is defined by "TH2" and the thickness of said gap film is defined by "WG", the relation of $TH2 \geq 4WG$ is satisfied.

3. A thin film magnetic head comprising at least one writing element, said writing element including a first magnetic film, a second magnetic film, a gap film and a coil film,

said first magnetic film including, on a base plane, a first pole piece which includes a uniform width portion which defines a uniform track width as viewed backward from the forefront of said first pole piece to be opposite to a magnetic recording medium,

said second magnetic film including a second pole piece which is adjacent to said first pole piece via said gap film,

said coil film exciting a thin film magnetic circuit comprised of said first magnetic film, said second magnetic film and said gap film,

wherein in said first pole piece, if the height of said uniform width portion is defined by "TH1", and the depth of said uniform width portion to a top surface of said first pole piece from a base plane of said first magnetic film is defined by "ND1", and the thickness of said gap film is defined by "WG", the relations of $TH1 \geq 4WG$ and $ND1 \geq 4WG$ are satisfied.

4. A thin film magnetic head comprising at least one writing element, said writing element including a first magnetic film, a second magnetic film, a gap film and a coil film,

said first magnetic film including a first pole piece on a base plane,

said second magnetic film including a second pole piece which is adjacent to said first pole piece via said gap film and includes a uniform width portion which defines a uniform track width as viewed backward from a forefront of said second pole piece to be opposite to a magnetic recording medium

said coil film exciting a thin film magnetic circuit comprised of said first magnetic film, said second magnetic film and said gap film,

wherein in said second pole piece, if the height of said uniform width portion is defined by "TH2" and the thickness of said gap film is defined by "WG", the relation of $TH2 \geq 4WG$ is satisfied.

5. The thin film magnetic head as defined in claim 1, wherein said second pole piece includes a uniform width portion as viewed backward from a forefront of said second pole piece to be opposite to said magnetic recording medium, and if the height of said uniform width portion elongating backward

from said forefront of said second pole piece is defined by "TH2", the relation of $TH2 \geq 4WG$ is satisfied.

6. The thin film magnetic head as defined in claim 5, wherein in said second pole piece, if the depth to a bottom surface adjacent to said gap film from a top surface of said second pole piece is defined by "ND2", the relation of $ND2 \geq 4WG$ is satisfied.

7. The thin film magnetic head as defined in claim 3, wherein said second pole piece includes a uniform width portion as viewed backward from a forefront of said second pole piece to be opposite to said magnetic recording medium, and if the height of said uniform width portion elongating backward from said forefront of said second pole piece is defined by "TH2", the relation of $TH2 \geq 4WG$ is satisfied.

8. The thin film magnetic head as defined in claim 7, wherein in said second pole piece, if the depth to a bottom surface adjacent to said gap film from a top surface of said second pole piece is defined by "ND2", the relation of $ND2 \geq 4WG$ is satisfied.

9. The thin film magnetic head as defined in claim 2, wherein in said second pole piece, if the depth to a bottom surface adjacent to said gap film from a top surface of said second pole piece is defined by "ND2", the relation of $ND2 \geq 4WG$ is satisfied.

10. The thin film magnetic head as defined in claim 4, wherein in said second pole piece, if the depth to a bottom surface adjacent to said gap film from a top surface of said second pole piece is defined by "ND2", the relation of $ND2 \geq 4WG$ is satisfied.

11. The thin film magnetic head as defined in any one claims 1-10, further comprising a reading element comprised of a first shielding film, a second shielding film and a magnetoresistive effective film which is located between said first shielding film and said second shielding film.

12. The thin film magnetic head as defined in claim 11, wherein said magnetoresistive effective film is made of a giant magnetoresistive effective film.

13. A magnetic head device comprising a thin film magnetic head as defined in any one of claims 1-10 and a head supporting device to support said thin film magnetic head.

14. A magnetic head device comprising a thin film magnetic head as defined in claim 11 and a head supporting device to support said thin film magnetic head.

15. A magnetic recording/reproducing device comprising a magnetic head device as defined in claim 13 and a magnetic recording medium to be magnetically written and read with cooperated with said magnetic head device.

16. A magnetic recording/reproducing device comprising a magnetic head device as defined in claim 14 and a magnetic recording medium to be magnetically written and read with cooperated with said magnetic head device.